

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (currently amended) Brake device for a construction machine, comprising:

a first brake circuit (2)[[,]] ~~which is~~ coupled to a first brake member (4) on a first wheel axle (6) of the machine[[,]];

a second brake circuit (8)[[,]] ~~which is~~ coupled to a second brake member (10) on a second wheel axle (12) of the machine,

the first and second brake circuits (2, 8) being independent of one another[[,]];

a pressure source (14) for hydraulic oil[[,]] ~~which is~~ coupled to the first and second brake ~~circuit~~ circuits (2, 8)[[,]];

a brake valve (16, 16')[[,]] ~~which is~~ coupled to the first and second brake ~~circuit~~ circuits (2, 8,),

which brake valve (16, 16') is designed to control the hydraulic oil from the pressure source (14) to the first and second brake members (4; 10) on the wheel axles (6, 12)[[, and]];

a brake pedal (30) coupled to the brake valve (16, 16')
and arranged so as to control the brake valve (16, 16');
~~characterized by~~

a limiting element (18, 36, 42') arranged in the first or
second brake circuit (2, 8),

which limiting element reduces a pressure surge when the
first and second brake circuits are activated, which limiting
element limits the pressure and/or flow of hydraulic oil when the
brake valve (16, 16') controls the hydraulic oil from the
pressure source (14) to the first and second brake members (4,
10) on the wheel axles (6, 12), ~~and that~~

the limiting element (18, 36, 42') ~~[[is]]~~ adapted to
limit the flow to the second brake member (10) in the second
brake circuit (8) of the limiting element (18, 36, 42') up to a
predetermined hydraulic oil pressure and to open for a through
flow of hydraulic oil, when the predetermined pressure is reached
to achieve a delayed activation of the second brake member (10)
in the second brake circuit of the limiting element (18, 36,
42').

2. (currently amended) Brake device according to
Claim 1, wherein ~~characterized in that~~ the limiting element
comprises a sequence valve (18), which opens when the hydraulic
oil pressure reaches a predetermined pressure.

3. (currently amended) Brake device according to Claim 1, ~~characterized in that~~ wherein the limiting element comprises a restrictor valve (42'), which limits the flow of hydraulic oil.

4. (currently amended) Brake device according to Claim 2, ~~characterized in that~~ wherein a first bypass line (22) is connected over the limiting element (18, 42') so that hydraulic oil is allowed to bypass the limiting element (18, 42') and ~~[[that]]~~ a non-return valve (24) is arranged in the first bypass line (22), so that hydraulic oil is prevented from flowing through the first bypass line (22) in the direction towards the first and second brake member members (4, 10).

5. (currently amended) Brake device according to Claim 2, ~~characterized in that~~ wherein a second bypass line (40) is connected over the sequence valve (18) and ~~[[that]]~~ a restrictor valve (42) is arranged in the second bypass line (40), so that a limited flow of hydraulic oil can bypass the sequence valve (18).

6. (currently amended) Brake device according to Claim 1, ~~characterized in that~~ wherein the brake valve (16') comprises the said limiting element (36).

7. (currently amended) Brake device according to Claim 6, ~~characterized in that~~ wherein the brake valve (16') comprises a first slide (32), which controls the flow of hydraulic oil in the first brake circuit (2), and a second slide (34), which controls the flow of hydraulic oil in the second brake circuit (8), which first slide (32) is arranged so as to control the second slide (34), so that the second slide (34) opens the second brake circuit (8) when the pressure in the first brake circuit (2) has reached a predetermined pressure.

8. (currently amended) Brake device according to Claim 7, ~~characterized in that~~ wherein the limiting element comprises a first spring (36), which acts on the second slide (34).

9. (currently amended) Method of braking a ~~construction~~ construction machine comprising a brake device provided with a first brake circuit (2)[[,]] ~~which is~~ coupled to a first brake member (4) on a first wheel axle (6) of the machine, and a second brake circuit (8)[[,]] ~~which is~~ coupled to a second brake member (10) on a second wheel axle (12) of the machine, comprising the step of: ~~characterized in~~ when depressing a brake pedal only a short way, activating the first brake member (4) ~~is activated when depressing the brake pedal~~

~~only a short way, and, [[that]] after a time delay, activating~~
the second brake member (10), ~~is essentially activated with~~
~~delayed effect~~

wherein the time delay reduces a pressure surge in the
second brake circuit.

10. (currently amended) Method according to Claim 9,
~~characterized in~~ wherein [[that]] the hydraulic oil pressure to
the second brake member (10) is limited until a predetermined
hydraulic oil pressure to the first brake member (4) is reached,
and [[that]] the second brake member (10) is essentially
activated when said predetermined hydraulic oil pressure to the
first brake member (4) is reached.

11. (currently amended) Method according to Claim 9,
~~characterized in~~ wherein [[that]] the second brake member (10) is
essentially continuously activated until said predetermined
pressure is reached.

12. (currently amended) Method according to Claim 9,
~~characterized in~~ wherein [[that]] a pressure controlled valve
(18) in the brake circuit to the second brake member (10) is
opened when said predetermined pressure is reached.

13. (currently amended) Brake device according to Claim 2, ~~characterized in that~~ wherein the limiting element comprises a restrictor valve (42'), which limits the flow of hydraulic oil.

14. (currently amended) Brake device according to Claim 13, ~~characterized in that~~ wherein a first bypass line (22) is connected over the limiting element (18, 42') so that hydraulic oil is allowed to bypass the limiting element (18, 42') and ~~[[that]]~~ a non-return valve (24) is arranged in the first bypass line (22), so that hydraulic oil is prevented from flowing through the first bypass line (22) in the direction towards the first and second brake member members (4, 10).

15. (new) Vehicle brake device, comprising:

a first brake circuit coupled to a first brake member on a first wheel axle of a vehicle;

a second brake circuit coupled to a second brake member on a second wheel axle of the vehicle,

the first and second brake circuits being independent of one another;

a pressure source for hydraulic oil coupled to the first and second brake circuits;

a brake valve coupled to the first and second brake circuits and controlling the hydraulic oil from the pressure source to the first and second brake members; and

a limiting element arranged in one of the first and second brake circuits to reduce a pressure surge when pressure on a brake pedal activates the first and second brake circuits by limiting the sequence of applying hydraulic oil to the first and second brake members,

the limiting element adapted to limit the flow to the second brake member up to a predetermined hydraulic oil pressure and, after reaching the predetermined hydraulic oil pressure, to remove the limit and open the flow to the second brake member to achieve a time delay in activating the second brake member to reduce pressure surge and brake shock when activating the first and second brake circuits.